Senior GNSS Software Engineer

JAVAD GNSS Inc is looking for a motivated Senior Software Engineer to join our core GNSS Navigation team, responsible for the architecture, design, implementation and validation of a state-of-the-art embedded positioning and navigation software with GNSS and navigation sensors to deliver RTK positions, Heading and Attitude.

Responsibilities

- Team authority on GNSS firmware and sensor fusion
- Lead the development of JAVAD's next generation Navigation Engine to compute position, velocity, and orientation of the GNSS receiver using satellite ranges coupled with additional sensors such as Inertial Measurement Units (IMU), magnetometers, speed sensors, lasers, cameras and odometers.
- Define and implement the architecture of the Navigation Engine to run efficiently on our embedded platforms with the team
- Ensure the flexibility, modularity and efficiency of the object-oriented software implementation starting from Matlab and/or C++ prototypes
- Define interfaces and operational requirements for the Navigation Engine with the team
- Contribute to continuous improvement of our development methodologies and tools

Qualifications

- Master's degree in computer science, electrical engineering or equivalent, with 5 years' experience in GNSS & RTK firmware development
- Excellent programming skills in C and C++, with a thorough understanding of modern C++ and the standard library
- Understand complicated GNSS, INS and navigation algorithms, their implementation in software, and their optimization for efficient operation
- Excellent understanding of software development life cycles and use of related tools (issue tracking, git, Jenkins or GitLab, design documentation, etc.)
- Excellent understanding of embedded software engineering (memory management, linking process, firmware startup, Realtime OS).
- Good communication skills in fluent English (written and spoken)

Desired

The additional experiences are a plus:

- Geomatics Applications
- GNSS + INS tight integration